

FIG. 1

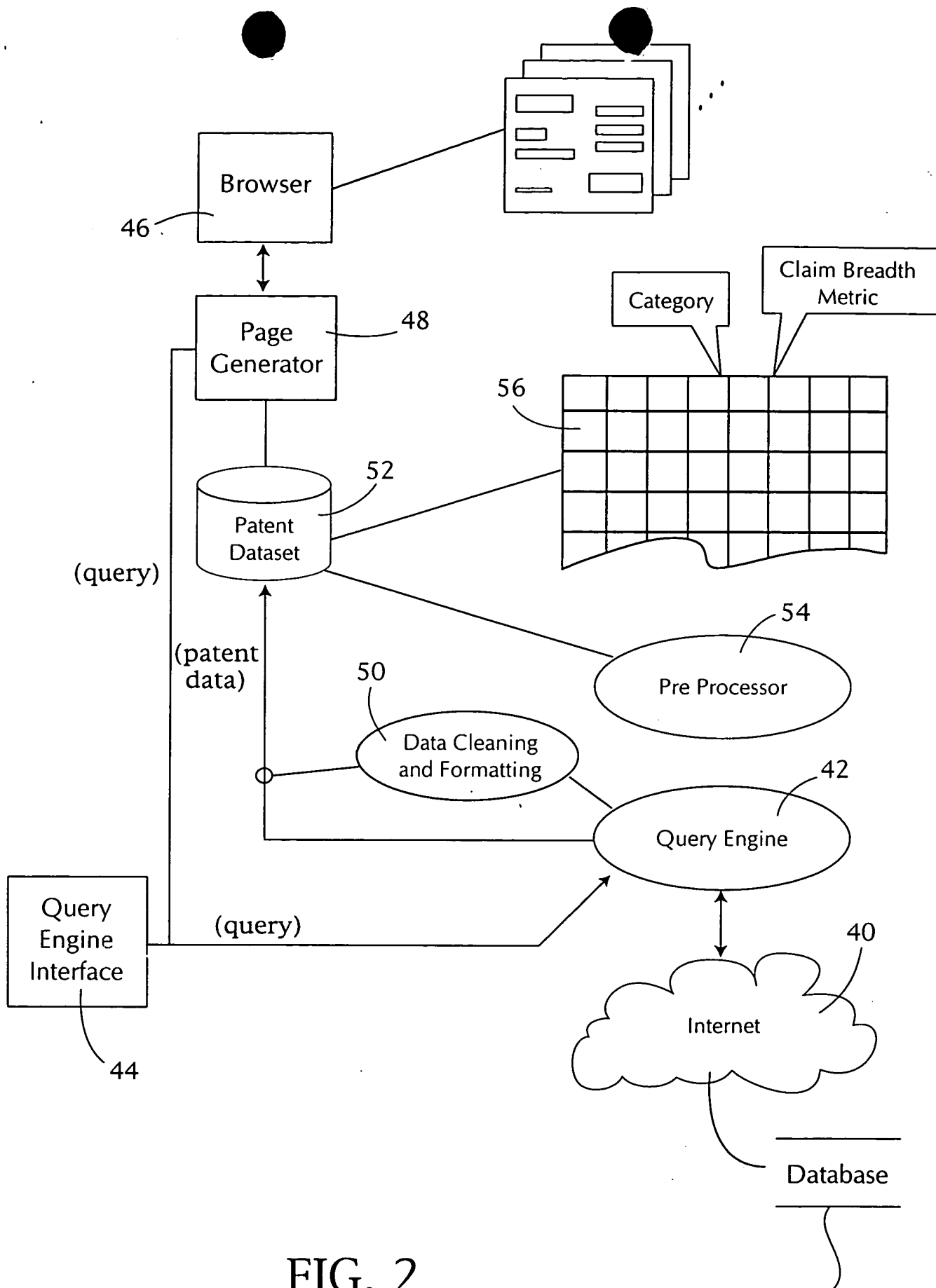


FIG. 2

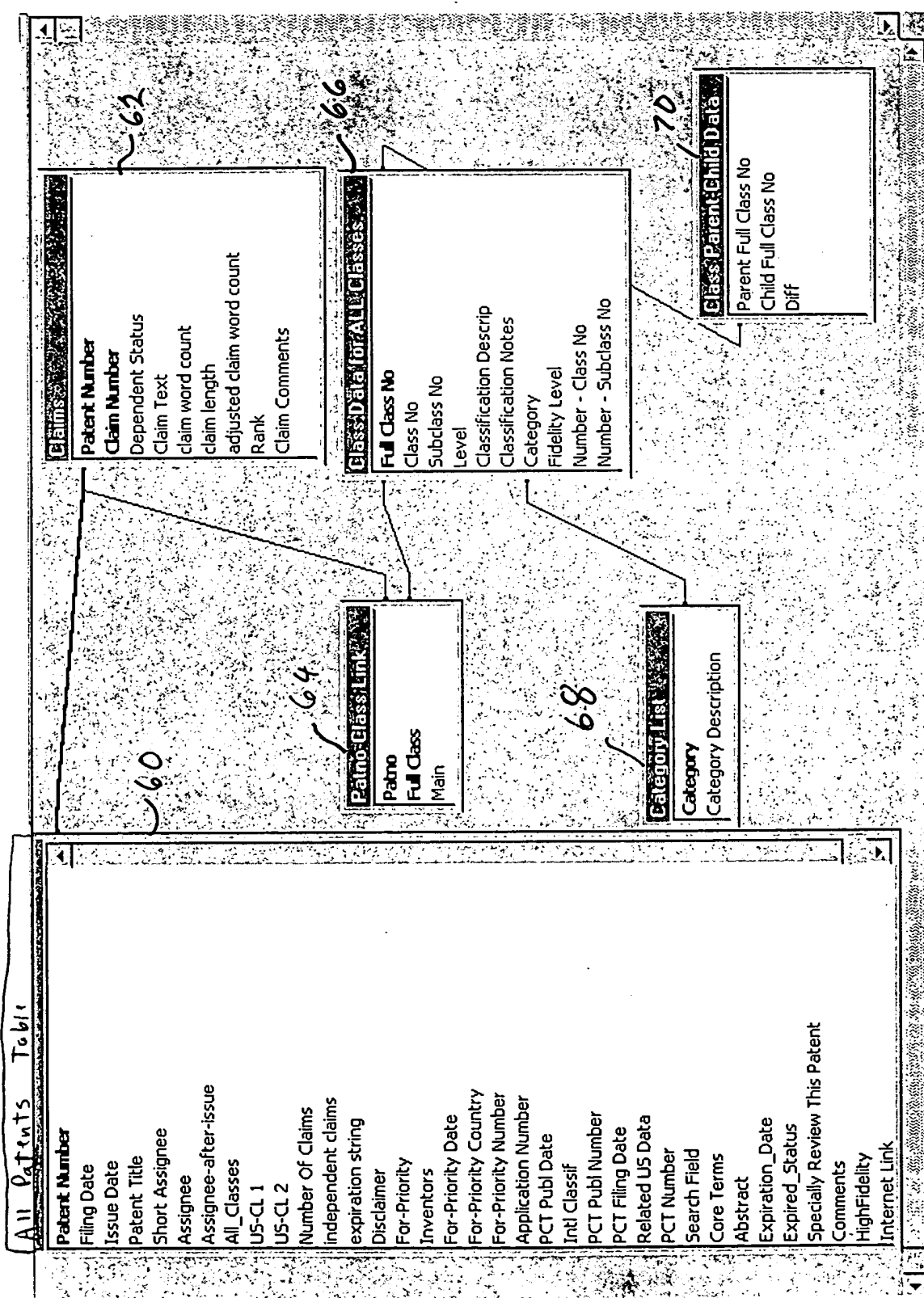


FIG 3

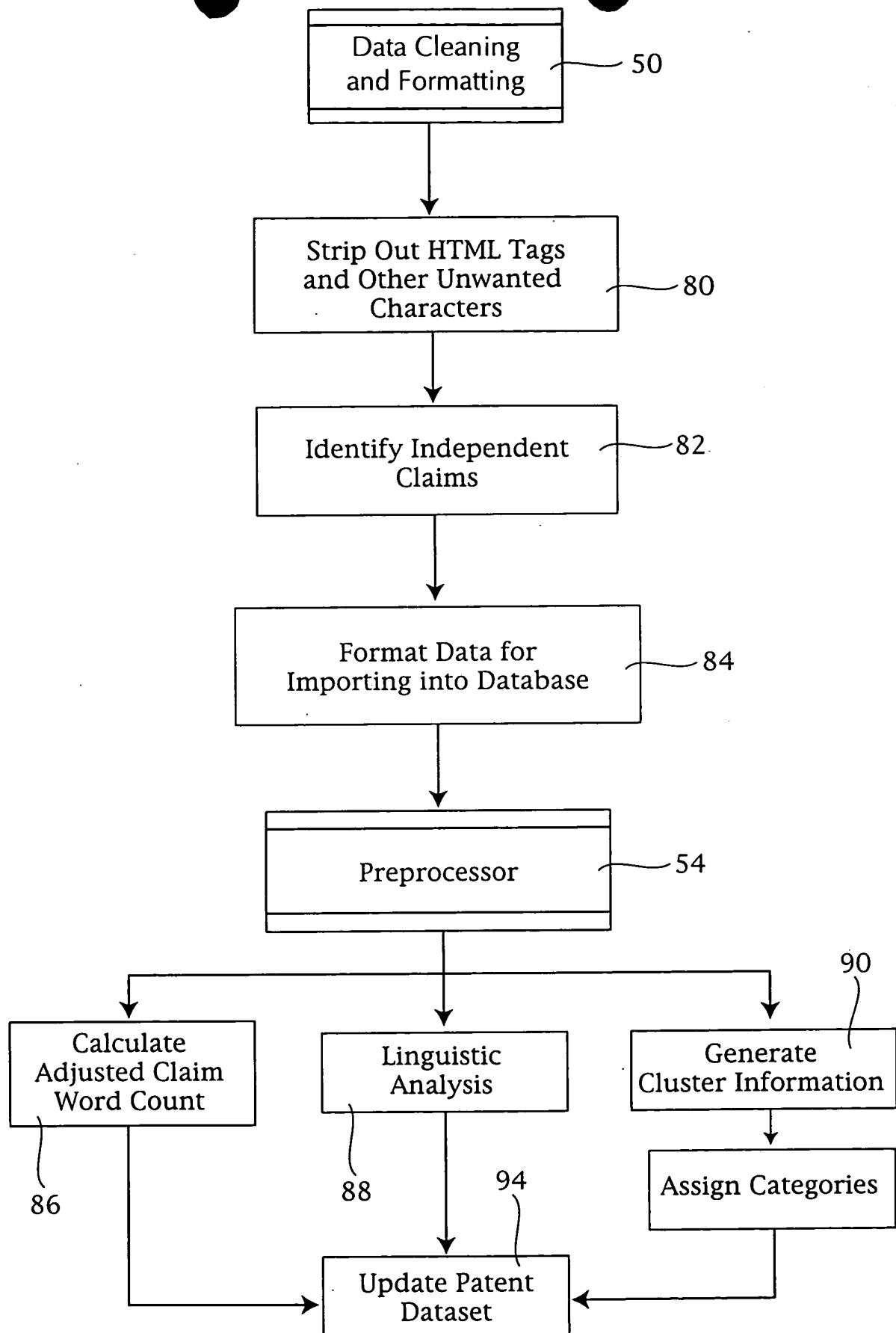
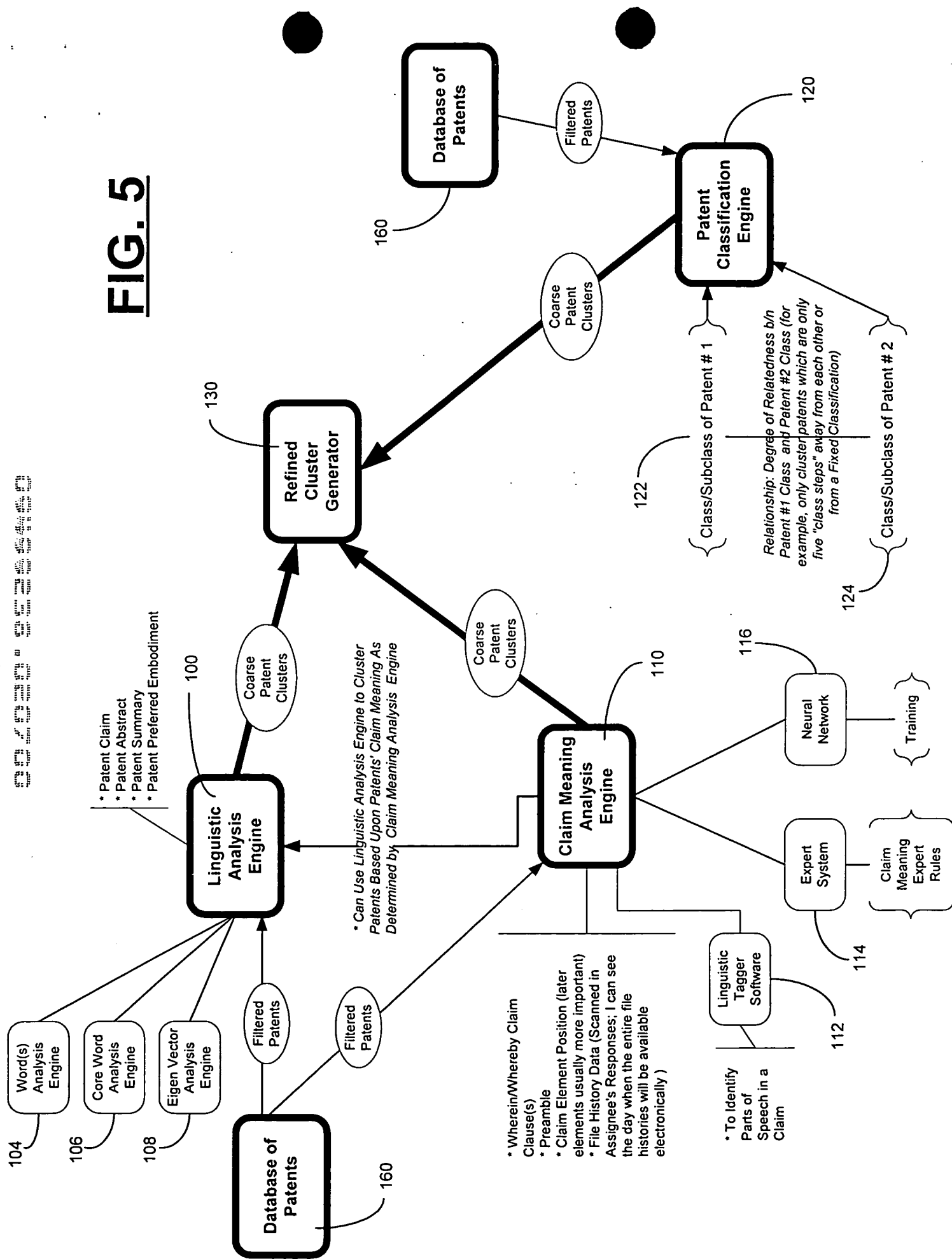


FIG. 4

# FIG. 5



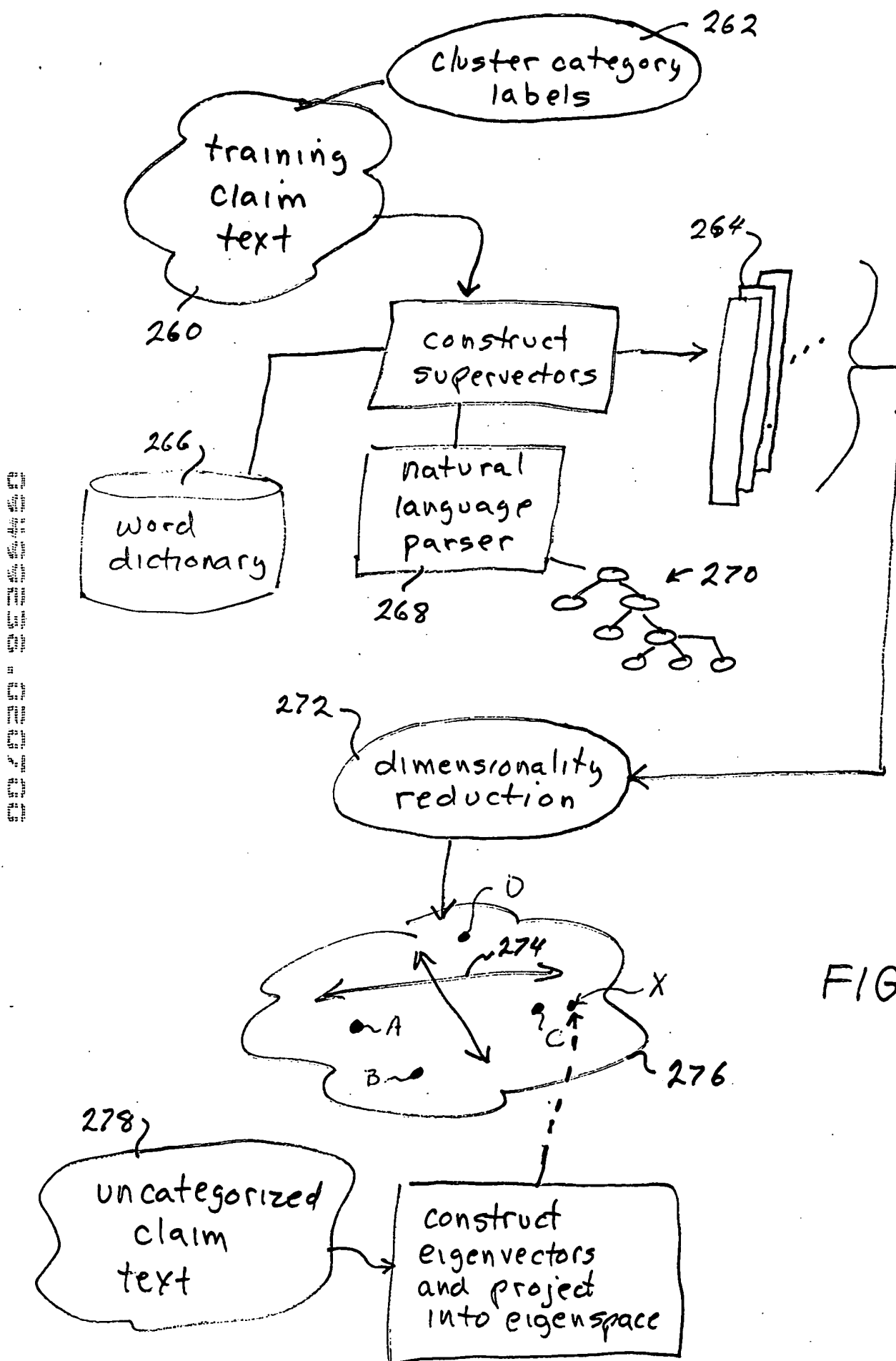
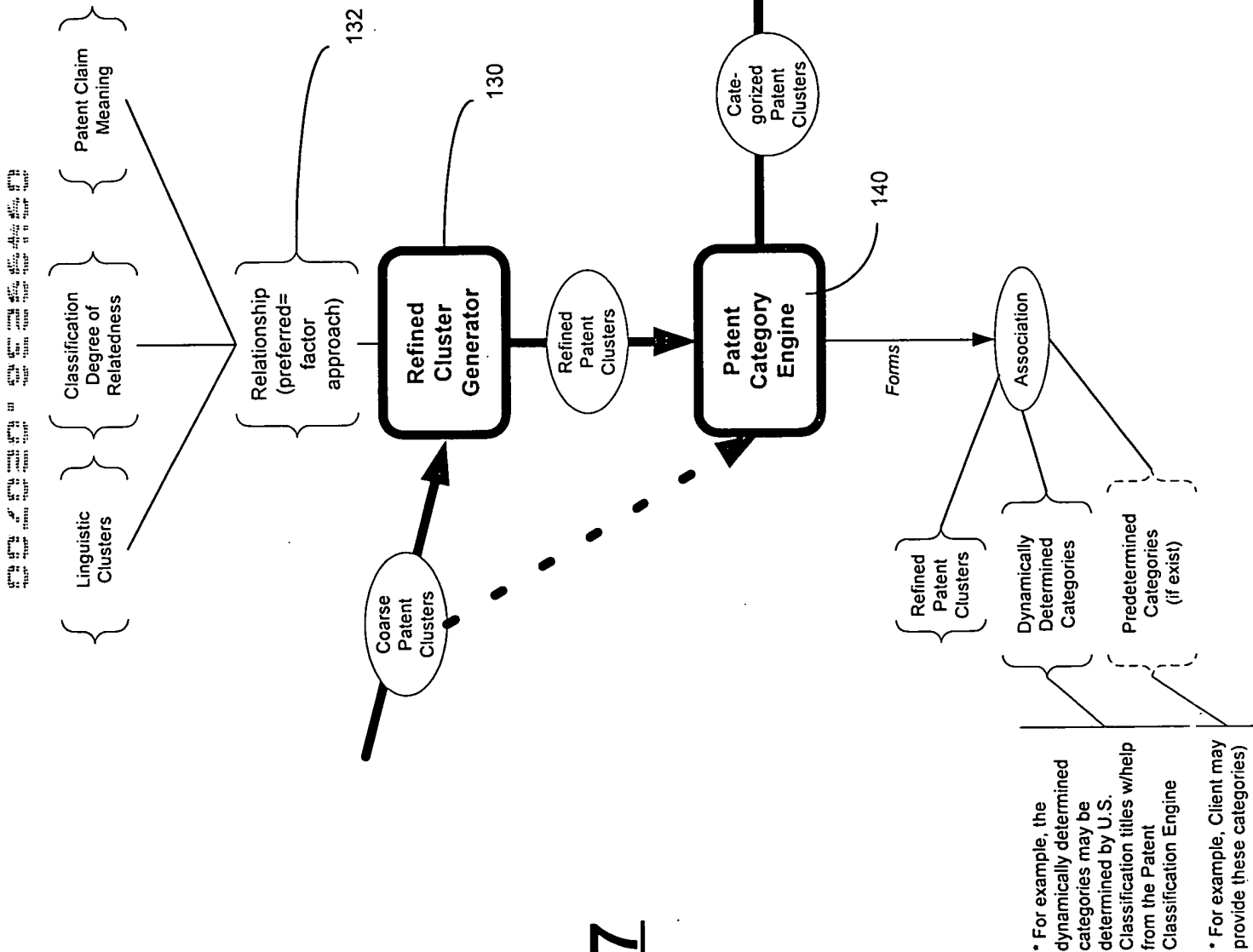
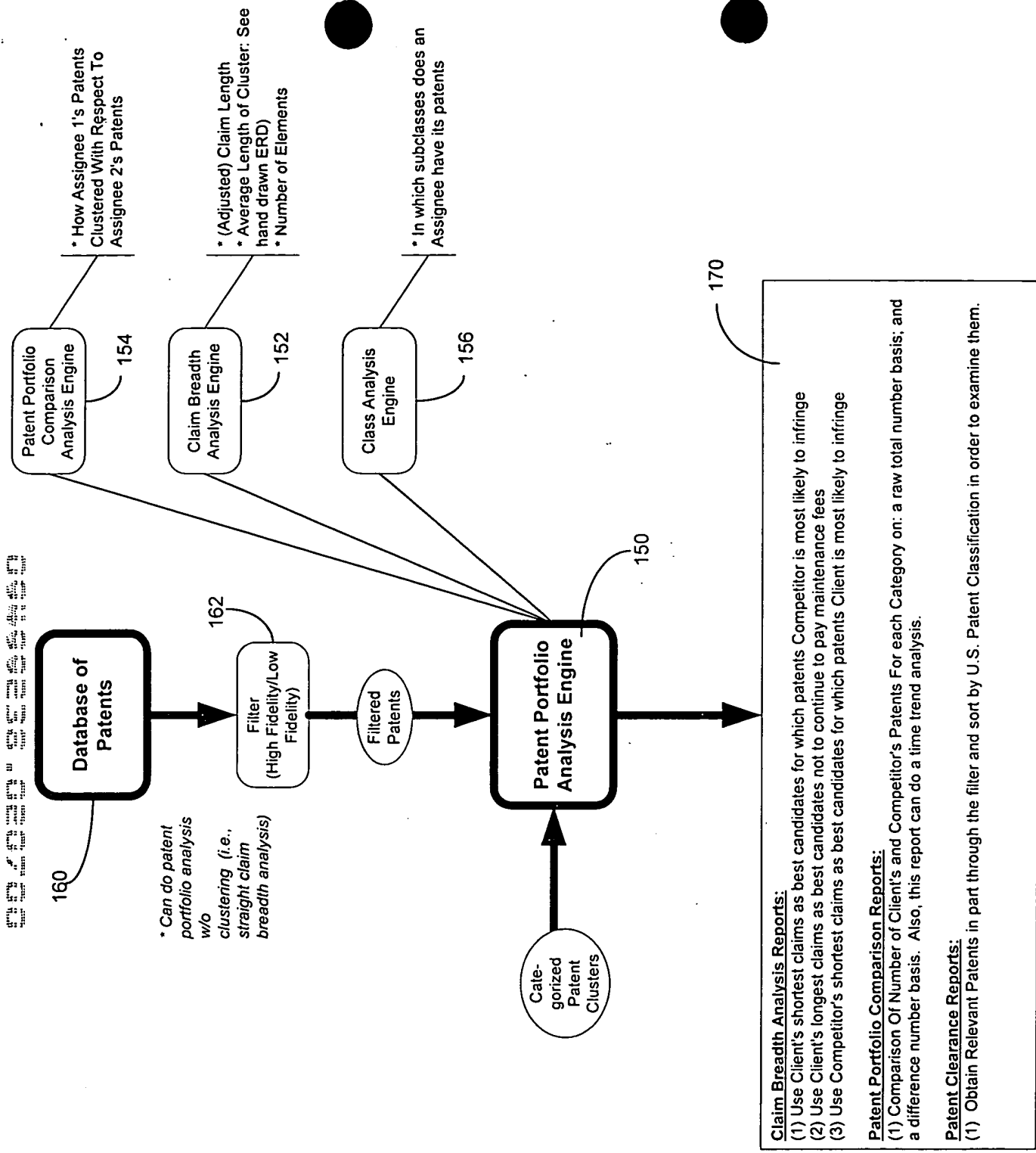


FIG 6

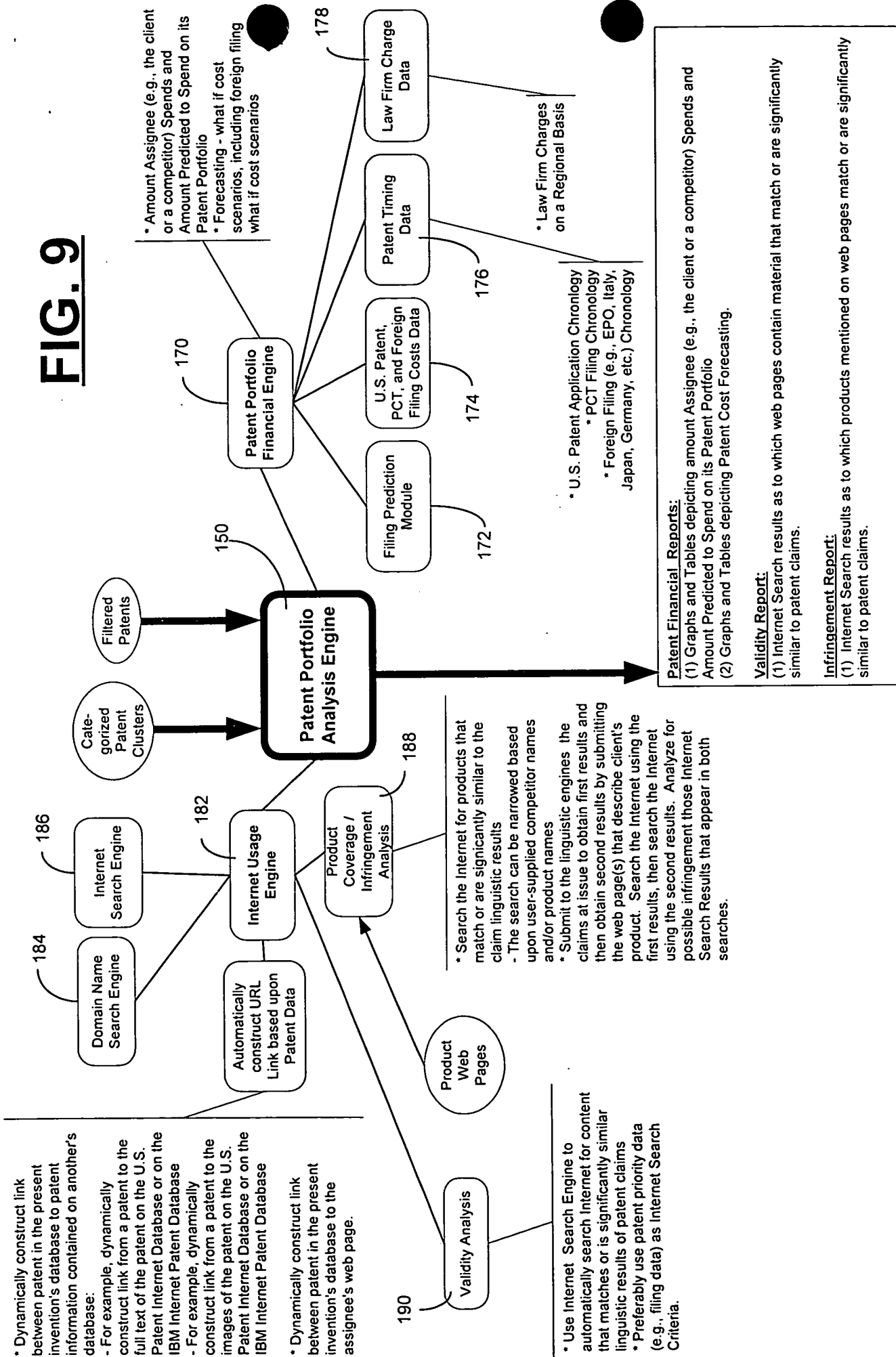


# FIG. 8





# FIG. 9



**FIG. 10**

Run Search		Look At This Pat.		Save Results In Excel (or in another format)		Close Form	
Claim Breadth		Assignee	Pat. No.	Patent Title		1-E Commerce Patents having POS or electronic cash register	
21	21	Datavision Corporation (formerly Excnct	5,099,422	Compiling system and method of producing individually customized recording media	17. A method for storing said retrieved segments onto individual ones of the storage media devices.	Filing Date: 03/17/1989 Issue Date: 03/24/1992	2-POS Terminal For Cost/Price
34	34	Financial Services Technology Consortium	5,677,955	Electronic funds transfer instruments	44. A computer-based method of attaching a document to a related electronic payment instrument comprising, forming a cryptographic hash of the document, and appending the hash to the electronic payment instrument.	Filing Date: 04/07/1995 Issue Date: 10/14/1997	
35	35	American Telephone and Telegraph Company	4,744,028	Methods and apparatus for efficient resource allocation	16. The improvement in linear programming methods for optimally allocating physical resources among a plurality of users which includes the steps of: iterating on only strictly feasible allocations, and normalizing each strictly feasible allocation with respect to the constraints on said allocations.	Filing Date: 04/19/1985 Issue Date: 05/10/1988	
36	36		5,233,513	Business modeling, software engineering and prototyping method and apparatus	11. A method for creating a business management system, including the steps of: creating business models with a general knowledge modeling system incorporating a four dimensional Cognitive Modeling Expert system;	Filing Date: 12/28/1989	

Fig. 11

412

410

Run Search		Look At This Pat.		Save Results In Excel (or in another format)		Close Form	
Claim Breadth	Assignee	Pat. No.	Patent Title	Claim Text	Category	1-E Comm	
21	Datavision Technologies Corporation (formerly Exnet)	5,099,422	Compiling system and method of producing individually customized recording media	17. A method for compiling individually customized information onto blank storage media devices, comprising: storing said retrieved segments onto individual ones of the storage media devices.	1-E Commerce	Filing Date: 3/17/89	Issue Date: 3/24/92
40	Sterling Commerce	5,794,206	Method and system for displaying electronic data interchanges in a computer	31. A method for displaying EDI messages in a computer, comprising the steps of: displaying an interchange window including at least one interchange entry associated with an interchange of an EDI message; and displaying a status icon representing the status of the interchange.	1-E Commerce	Filing Date: 5/6/96	Issue Date: 8/11/98
42	Sterling Commerce	5,794,206	Method and system for displaying electronic data interchanges in a computer	46. A method for displaying EDI messages in a computer, comprising the steps of: displaying an interchange window including at least one interchange entry associated with an interchange of an EDI message; and displaying a functional group entry associated a functional group of the interchange.	1-E Commerce	Filing Date: 5/6/96	Issue Date: 8/11/98
44	Sterling Commerce	5,794,206	Method and system for displaying electronic data interchanges in a	30. A window in a graphical user interface, comprising: an interchange window operable to display at least one interchange entry associated with an	1-E Commerce	Filing Date:	

Fig. 12



430

432


United States Patent: 5,099,422 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Real.com

Address [12-HITOFF&d=PALL&p=1&u=/netahtml/srchnum.htm&i=1&l=G&l=50&s1=5099422&WKU&QS=PN/5099422&PS=PN/5099422](http://12-HITOFF&d=PALL&p=1&u=/netahtml/srchnum.htm&i=1&l=G&l=50&s1=5099422&WKU&QS=PN/5099422&PS=PN/5099422) Go Links

---



# US PATENT & TRADEMARK OFFICE

## PATENT FULL TEXT AND IMAGE DATABASE

[Help](#) [Home](#) [Boolean](#) [Manual](#) [Number](#) [Order Copy](#) [PTOLs](#)

[Hit List](#) [Bottom](#)

[Shopping Cart](#) [Order Copy](#)

[Images](#)

---

United States Patent  
Foresman, et al.

5,099,422  
March 24, 1992

---

### Compiling system and method of producing individually customized recording media

#### Abstract

The compiling system and method of the present invention enables the recording of individually customized information onto blank storage media devices, and includes a data base memory device for storing information signals indicative of customized recipient information pertaining to a group of recipients. A presentation memory device stores a group of pre-recorded signals indicative of a group of information segments to be compiled selectively. A computing device responds to stored information

---

Internet

Fig. 14

**Patent Number: 05099422**

Section: Drawings 2 of 22 pages

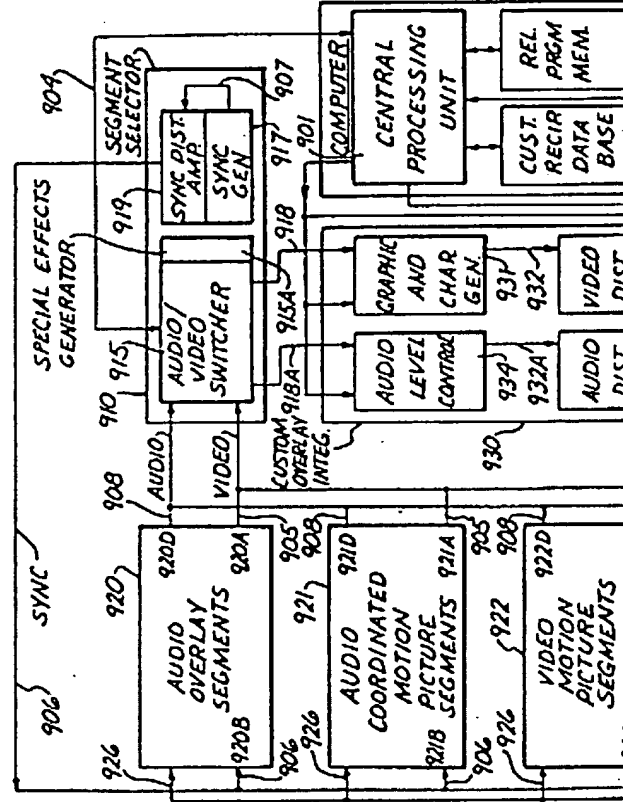
**Help**

**U.S. Patent**

**Mar. 24, 1992**

Sheet 1 of 10

**5,099,422**



## Claims To Be Reviewed

Rank	Patent Number	Filing Date	Issue Date
5	5,099,422	03/17/1989	03/24/1992
<b>Assignee</b>			
Datavision Technologies Corporation (formerly Excnet)			
<b>Claim Text</b>			
17. A method for compiling individually customized informatin onto blank storage media devices, comprising: storing said retrieved segments onto individual ones of the storage media devices.			
<b>Abstract</b>			
The compiling system and method of the present invention enables the recording of individually customized information onto blank storage media devices, and includes a data base memory device for storing information signals indicative of customized recipient information pertaining to a group of recipients. A presentation memory device stores a group of pre-recorded signals indicative of a group of information segments to be compiled selectively. A computing device responds to stored information signals indicative of customized recipient information for selecting certain ones of said pre-recorded signals indicative of certain ones of said segments and for causing signals indicative of certain ones of said segments to be retrieved selectively in a given sequence for compilation purposes. A recording device responds to retrieved signals indicative of certain ones of said segments for storing said retrieved signals onto individual ones of the storage media devices.			
<b>Claim Comments</b>			
<<user can insert comments>>			

Rank	Patent Number	Filing Date	Issue Date
3	5,677,955	04/07/1995	10/14/1997
<b>Assignee</b>			
Financial Services Technology Consortium			
<b>Claim Text</b>			
1. A computer-based method comprising creating an electronic instrument for effecting a transfer of funds from an account of a payer in a funds-holding institution to a payee, <u>the instrument including an electronic signature of the payer, and</u> <u>appending, to the electronic instrument, digital representations of a verifiable certificate by the institution of the authenticity of the account or the account holder.</u>			
<b>Abstract</b>			
An electronic instrument is created in a computer-based method for effecting a transfer of funds from an account of a payer in a funds-holding institution to a payee. The electronic instrument includes an electronic signature of the payer, digital representations of payment instructions, the identity of the payer, the identity of the payee, and the identity of the funds-holding institution. A digital representation of a verifiable certificate by the institution of the authenticity of the instrument is appended to the instrument. This enables a party receiving the instrument, e.g., the payee or a bank, to verify the authenticity of the account or account holder. The invention may be generally applied to any financial electronic document.			
<b>Claim Comments</b>			

this clause  
visually presented  
differently. e.g.  
highlighted

Fig. 16

450



<input type="button" value="Run Search"/> <input type="button" value="Hitachi"/>		<input type="button" value="Look At This Pat"/>		<input type="button" value="Save Results in Excel (or in another format)"/> <input type="button" value="Close Form"/>	
Claim Breadth	Assignee	Pat. No.	Patent Title	Claim Text	Category
1210	Hitachi	5,586,022	Method of evaluating easiness of works and processes performed on articles and evaluation apparatus	10. A method of operating a computer for evaluating whether an article has a structure which facilitates work to be performed thereon, comprising: registering data in said computer and processing to data to evaluate easiness of work to be performed on an article under evaluation, said registering data in said computer includes the steps of:	<input type="text"/> Filing Date: 08/15/1994 Issue Date: 12/17/1996
862	Hitachi	5,907,488	Method of evaluating easiness of works and processes performed on articles and evaluation apparatus	1. A method of evaluating quantitatively whether an article has a structure which facilitates work to be performed thereon with the aid of a computer, comprising: processing for registration in said computer and processing for evaluating easiness of work to be performed on an article under evaluation, wherein said processing for registration in said computer	<input type="text"/> Filing Date: 09/19/1996 Issue Date: 05/25/1999
851	Hitachi	5,586,022	Method of evaluating easiness of works and processes performed on articles and evaluation apparatus	2. A method of operating a computer for quantitatively evaluating whether an article has a structure which facilitates work to be performed thereon, comprising: registering data in said computer and processing the data to evaluate easiness of work to be performed on an article under evaluation, said registering data in said computer includes	<input type="text"/> Filing Date: 08/15/1994 Issue Date: 12/17/1996
759	Hitachi	5,576,965	Method and apparatus for aiding of designing process	14. An apparatus for aiding a process for producing a design solution, wherein, on the basis of design knowledge including an attribute model representing a design specification of a product expressed by a group of a plurality of attributes and	<input type="text"/> Filing Date: 04/12/1993

462

460

Fig. 17

Year Filed	Assignee	Category	# Filed
1980	Sharp Kabushiki Kaisha	S	1
1983	Casio Computer Co.	POS Terminal	1
1983	Casio Computer Co.	S	1
1985		A	1
1989	The United States of America as represented by	A	1
1990		A	1
1990	Heads Up Technologies	A	1
1990	Interactive Voice Data System Inc.	A	1
1992	EC Corporation	A	1
1993	Macrovision Corporation	A	1
1994		A	1

472

470

Fig. 18

482

Year Filed	Assignee	Category	# Filed
1983	Sharp Kabushiki Kaisha	A	5
1983	Sharp Kabushiki Kaisha	2-POS Terminal	4
1981	Sharp Kabushiki Kaisha	2-POS Terminal	3
1982	Sharp Kabushiki Kaisha	2-POS Terminal	3
1979	Sharp Kabushiki Kaisha	A	2
1980	Sharp Kabushiki Kaisha	2-POS Terminal	2
1980	Sharp Kabushiki Kaisha	A	2
1984	Sharp Kabushiki Kaisha	2-POS Terminal	2
1990	Sharp Kabushiki Kaisha	2-POS Terminal	2
1982	Sharp Kabushiki Kaisha	Cost/Price	1
1993	Sharp Kabushiki Kaisha	2-POS Terminal	1
1990	Sharp Kabushiki Kaisha	A	1
1980	Sharp Kabushiki Kaisha	2-POS Terminal	1

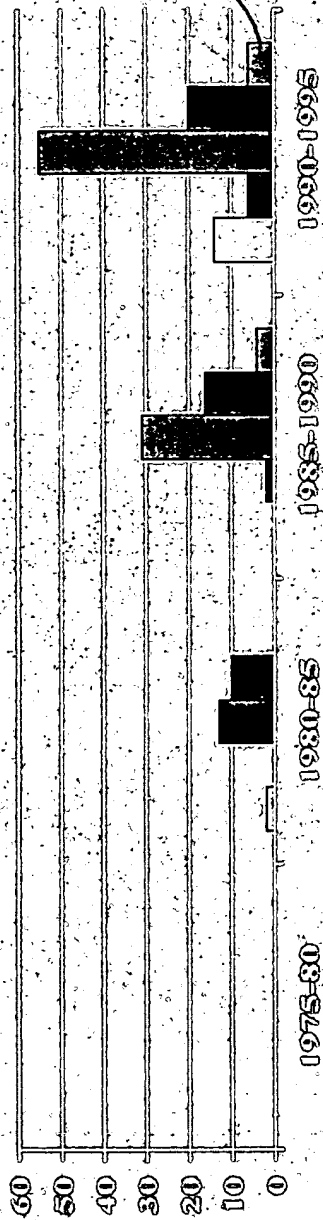
Fig. 19

Fig 20

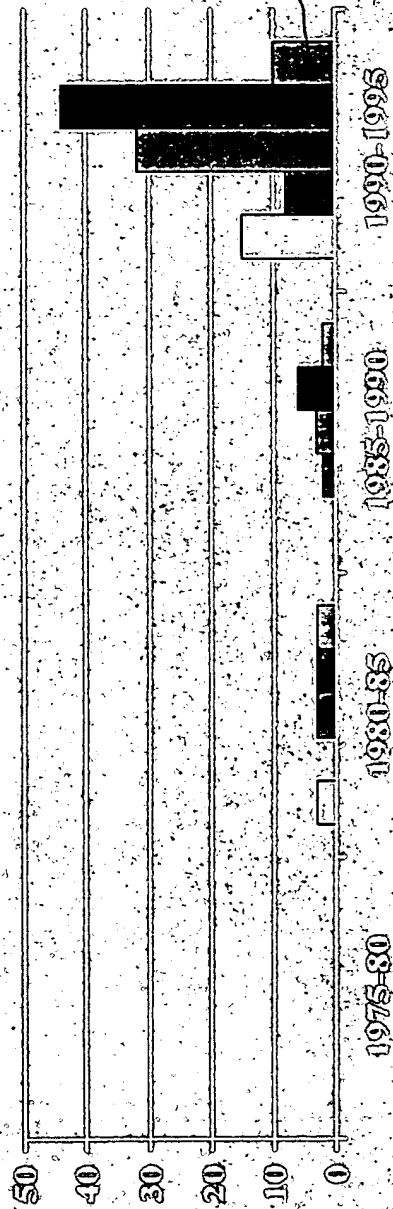
# Client's Patent Portfolio



## Competitor #1's Patent Portfolio



## Competitor #2's Patent Portfolio



520

Class		Level / Category	Close Form	Show Assignee's Pats in the Subclass	Run Search	Assignee	# of Pats.
Classification		Category	Descrip	Notes			
705/0	0		DATA PROCESSING: FINANCIAL BUSINESS PRACTICE, MANAGEMENT, OR	This is the generic class for apparatus and corresponding methods for performing data processing operations, in which there is a			
705/1	1		AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS PRACTICE OR MANAGEMENT	Subject matter under the class definition wherein an electrical apparatus and its corresponding methods perform the data processing			
705/2	2		Health care management (e.g. record management, CDA billing)	Subject matter under subclass 1 drawn to a computer implemented system or method particularly adapted for a health care management or			
705/3	3		Patient record management	Subject matter under subclass 2 wherein the system processes the records of diagnosis or treatment of a patient			
705/4	3		Insurance (e.g. computer implemented system or method for writing insurance policy)	Subject matter under subclass 1 drawn to a computer implemented system or method for writing an insurance policy or processing an			
705/5	2		Reservation, check-in, or booking display for reserved space	Subject matter under subclass 1 drawn to a computerized			
705/6	4		Coordination of plural reservations (e.g. plural trip segments, transportation and	Subject matter under subclass 5 wherein the processing system coordinates multiple distinct reservations for a single itinerary			

Fig. 21

Class		Level / Category	Classification Descrip	Notes	Assignee	# of Pats.
			<input type="button" value="Close Form"/>	<input type="button" value="Show Assignee's Pats in the Subclass"/>	<input type="button" value="Run Search"/>	<input type="text" value="Microsoft"/>
705/8	3	3	Allocating resources or scheduling for an administrative function	Subject matter under subclass 7 for the distribution of resources or for scheduling in a business or commercial environment	Microsoft	1
705/9	4	4	Staff scheduling or task assignment	Subject matter under subclass 8 for scheduling of or assigning a task to an individual or group	Microsoft	1
705/14	2	2	Distribution or redemption of coupon, or incentive or promotion program	Subject matter under subclass 1 particularly designed for price reduction of or premium credit resulting from the purchase of a	Microsoft	1
705/17	3	3	Having interface for record bearing medium or carrier for electronic funds transfer or	Subject matter under subclass 16 further including an arrangement for reading a customer associated payment effecting data bearing record	Microsoft	2
705/26	2	2	Electronic shopping (e.g., remote ordering)	Subject matter under subclass 1 drawn to a computerized arrangement which enables a purchaser to inspect or select from a plurality of different	Microsoft	5
705/27	3	3	Presentation of image or description of sales item (e.g., electronic catalog browsing)	Subject matter under subclass 26 which includes a feature enabling a user to inspect a listing, or other visual or audible representation of plural	Microsoft	2
705/30	2	2	Accounting	Subject matter under subclass 1 drawn to a computerized arrangement for recording, analyzing, verifying, or reporting of funds or other	Microsoft	2

Fig. 22

Top 558 560 562					
	US	US	48		
YEAR	# U.S. Filed	# U.S. Issued	U.S. Services	U.S. Costs	US Total
1980	1	0	\$5,000	\$1,000	\$6,000
1981	2	0	\$13,000	\$2,000	\$15,000
1982	2	1	\$16,300	\$3,320	\$19,620
1983	2	1	\$16,300	\$3,320	\$19,620
1984	3	4	\$22,200	\$8,280	\$30,480
1985	4	0	\$29,200	\$5,050	\$34,250
1986	1	4	\$18,400	\$7,330	\$25,730
1987	1	4	\$10,000	\$10,480	\$20,480
1988	2	1	\$13,500	\$5,420	\$18,920
1989	10	2	\$57,600	\$18,940	\$76,540
1990	3	5	\$48,100	\$22,200	\$70,300
1991	13	6	\$76,000	\$21,970	\$97,970
1992	13	5	\$106,900	\$33,260	\$140,160
1993	10	7	\$93,100	\$36,050	\$129,150
1994	26	12	\$165,800	\$62,880	\$228,680
1995	12	21	\$145,700	\$49,170	\$194,870
1996	9	18	\$89,600	\$63,250	\$152,850
1997	10	3	\$82,300	\$51,800	\$134,100
1998	17	9	\$123,100	\$64,590	\$187,690
1999	13	35	\$131,900	\$99,120	\$231,020
2000	13	12	\$111,600	\$72,990	\$184,590
2001	13	12	\$114,800	\$101,350	\$216,150
2002	13	12	\$119,200	\$119,190	\$238,390
2003	13	12	\$112,000	\$69,860	\$181,860
2004	13	12	\$114,200	\$98,260	\$212,460
2005	13	12	\$121,200	\$181,300	\$302,500
550					
Avg from '93-'97					
# Pats.-->					
554 552 556					

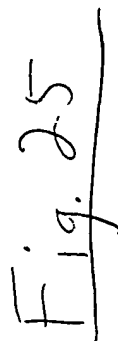
Fig. 23

Top 582 5

	germany	germany	14			
YEAR	# Germany Filed	# Germany Issued	Germany Services	Germany Foreign Agents	Germany Costs	Germany Total
1980	0	0	\$0	\$0	\$0	\$0
1981	0	0	\$0	\$0	\$0	\$0
1982	1	0	\$700	\$2,468	\$332	\$3,500
1983	1	0	\$2,300	\$5,068	\$332	\$7,700
1984	1	0	\$2,300	\$5,068	\$332	\$7,700
1985	1	0	\$2,300	\$5,068	\$332	\$7,700
1986	4	1	\$4,600	\$12,790	\$1,639	\$19,029
1987	3	1	\$8,800	\$18,122	\$1,522	\$28,444
1988	4	2	\$8,200	\$18,308	\$2,411	\$28,919
1989	5	3	\$10,900	\$23,694	\$3,572	\$38,166
1990	3	4	\$11,600	\$21,676	\$4,029	\$37,305
1991	8	8	\$13,100	\$30,088	\$8,106	\$51,294
1992	4	5	\$18,500	\$32,262	\$8,085	\$58,847
1993	7	5	\$14,700	\$29,266	\$11,024	\$54,990
1994	42	5	\$44,500	\$123,446	\$25,022	\$192,968
1995	28	8	\$91,800	\$180,848	\$24,074	\$296,722
1996	30	6	\$71,200	\$148,748	\$28,037	\$247,985
1997	27	10	\$73,700	\$147,816	\$32,497	\$254,013
1998	5	1	\$52,700	\$82,858	\$28,237	\$163,795
1999	27	15	\$35,800	\$84,406	\$44,920	\$165,126
2000	27	15	\$72,500	\$141,606	\$54,025	\$268,131
2001	27	15	\$74,000	\$141,606	\$64,094	\$279,700
2002	27	15	\$75,500	\$141,606	\$75,704	\$292,810
2003	27	15	\$77,000	\$141,606	\$88,951	\$307,557
2004	27	15	\$78,400	\$141,606	\$101,415	\$321,421
2005	27	15	\$79,800	\$141,606	\$115,656	\$337,062
Avg from '93-'97	27	7	59180	126025	24131	209336
# Pats.-->	363	164				

Fig. 24





Number Of Patent Filings Per Country

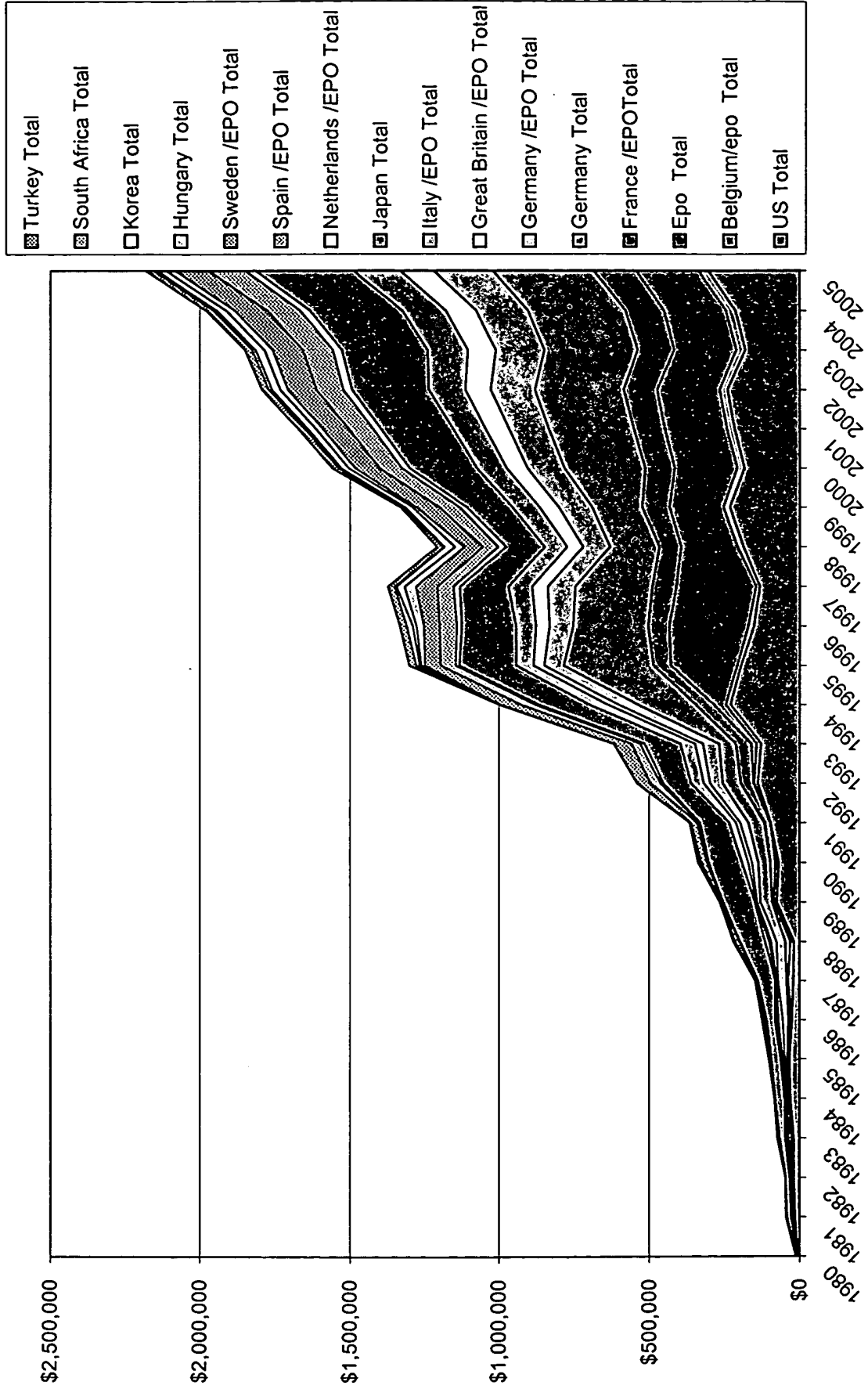


Fig. 26

620      624 U.S.      622      626

Time (year)	U.S. Events	U.S. Services	U.S. Costs	U.S. Events	U.S. Services	U.S. Costs
0-1	* Filing of U.S. Patent App.; * Atty/Pat. App. Preparation (20 claims, 3 indep., 3.5 sheets of dwgs)	\$5,000	\$1,000	* Issue Fee Due	\$300	\$1,320
1-2	* 1st Office Action; * 2nd Office Action	\$3,000				
2-3						
3-4				* U.S. Year 3.5 Maintenance Fee (2.5 issue yr + 3.5 yr)	\$200	\$1,050
5-6						
6-7						
7-8				* U.S. Year 7.5 Maintenance Fee (2.5 issue yr + 7.5 yr)	\$200	\$2,100
9-10						
10-11						
11-12						
12-13				* U.S. Year 11.5 Maintenance Fee (2.5 issue yr + 11.5 yr)	\$200	\$3,160
13-14						
14-15						
15-16						
16-17						
17-18						
18-19						
19-20						
20-21						
21-22						

Fig. 27

## Germany

Time (year)	Germany Events	Germany Services	Germany Foreign Associates	Germany Costs	Germany Events	Germany Services	Germany Foreign Associates	Germany Costs
0-1	* Filing; * Examination	\$700	\$2,468	\$332	* Granting; + Germany Annuity for Year 3	\$200	\$318	\$311
1-2	* First Prosecution; * Second Prosecution	\$1,600	\$2,600	\$0	* Germany Annuity for Year 4	\$100		\$215
2-3					* Germany Annuity for Year 5	\$100		\$246
3-4					* Germany Annuity for Year 6	\$100		\$303
5-6					* Germany Annuity for Year 7	\$100		\$349
6-7					* Germany Annuity for Year 8	\$100		\$409
7-8					* Germany Annuity for Year 9	\$100		\$482
9-10					* Germany Annuity for Year 10	\$100		\$543
10-11					* Germany Annuity for Year 11	\$100		\$664
11-12					* Germany Annuity for Year 12	\$100		\$846
12-13					* Germany Annuity for Year 13	\$100		\$998
13-14					* Germany Annuity for Year 14	\$100		\$1,150
14-15					* Germany Annuity for Year 15	\$100		\$1,332
15-16					* Germany Annuity for Year 16	\$100		\$1,514
16-17					* Germany Annuity for Year 17	\$100		\$1,696
17-18					* Germany Annuity for Year 18	\$100		\$1,878
18-19					* Germany Annuity for Year 19	\$100		\$2,060
19-20					* Germany Annuity for Year 20	\$100		\$2,242
20-21								
21-22								

Fig. 28

Rank	Assignee	Avg Of adjusted claim word count	St Dev Of adjusted claim word count	Count Of adjusted claim word count	Min Of adjusted claim word count	Max Of adjusted claim word count
1	Assignee #1	224.5	146.8	727	53	1411
2	Assignee #2	246.4	127.2	550	67	1062
3	Assignee #3	177.8	93.3	668	36	1023
4	Assignee #4	194.7	85.5	278	61	524
5	Assignee #5	154.0	74.3	586	45	782
6	Assignee #6	255.8	136.1	471	47	989
7	Assignee #7	217.9	125.3	420	50	720
•						
•						
•						
N	Assignee #N					

FIG. 29

An Assigner can see how well its claim breadth Average compares to a cluster's Overall Average (Independent of Assignee)

Average of the Averages = 210.2